

ABSTRACT

The continuously advancing technology is one of many factor that increase our needs, from trivial to significant thing such as national defence. From developing nation perspective, advanced nation military technology can become a threat. But, it can be reduced. In domain of weapon, it can be reduced by using motion detection method to aim target automatically.

In this automatic targeting system design, the object of aim is tank. The physical form of this system is a camera that attached on robot arm that use motor to move and controlled by FPGA. Thus, it can aim the desired target.

Because of small delay and high compatibility of FPGA. This system is expected to have faster response than human manual targeting, including optimal sensitivity to tank motion.

Keywords: Automatic Target, VHDL, FPGA